```xml
<schema targetNamespace="http://www.foo.com/yellowpage"
    xmlns="http://www.w3.org/2001/XMLSchema"
    xmlns:p="http://www.foo.com/personnel">

 <annotation>
  <documentation xml:lang='en'>
    The Contact Directory Records for foo.com
    Copyright 2003 foo.com. All rights reserved.
  </documentation>
 </annotation>

<complexType name='AddressType' abstract='true'>
  <sequence>
   <element name='street' type='string'/>
   <element name='city'  type='string'/>
  </sequence>
</complexType>


<!-- address type of different country -->
<complexType name='USAddressType'>
  <complexContent>
   <extension base='p:AddressType'>
    <sequence>
     <element name='state' type='p:USState'/>
     <element name='zip'  type='positiveInteger'/>
    </sequence>
   </extension>
  </complexContent>
</complexType>


<!-- etc. ...          -->

<complexType name='employeeType'>
  <sequence>
   <element name='name' maxOccurs='1'/>
    <complexType>
     <sequence>
      <element name='lastname' type='string' maxOccurs='1'/>
      <element name='firstname' type='string' maxOccurs='1'/>
     </sequence>
    </complexType>
   </element>
   <element name='address' type='p:AddressType' maxOccurs='1'/>
   <element ref='notes' minOccurs='0'/>
  </sequence>
  <attribute name='serno'   type='integer'/>
  <attribute name='userid'   type='p:USERID_TYPE'/>
  <attribute name='department' type='string'/>
</complexType>

<complexType name='vendorType'>
  <sequence>
   <element name='name' type='string' maxOccurs='1'/>

   <element name='address' type='p:AddressType'
maxOccurs='1'/>
   <element ref='notes' minOccurs='0'/>
  </sequence>
  <attribute name='serno'   type='integer'/>
  <attribute name='userid'
type='p:VENDOR_USERID_TYPE'/>
</complexType>

<element name='yellowpages'>
  <complexType>
   <choice minOccurs='1' maxOccurs='unbounded'>
    <element name='employee' type='p:employeeType'/>
    <element name='vendor' type='p:vendorType'/>
   </choice>
  </complexType>
</element>

<element name='notes' type='string'/>

<element name='employee_notes' type='string'
substitutionGroup='p:notes'/>
<element name='employer_notes' type='string'
substitutionGroup='p:notes'/>

<!-- Customized Simple data type declaration -->
<simpleType name='USERID_TYPE'>
  <restriction base='string'>
   <pattern value='[a-zA-Z]{1}[1-9a-zA-Z]*'/>
  </restriction>
</simpleType>

<simpleType name='VENDOR_USERID_TYPE'>
  <restriction base='string'>
   <pattern value='[0-9]{1}[1-9a-zA-Z]*'/>
  </restriction>
</simpleType>
</schema>
```

FIGURE 3